

Fig. 1

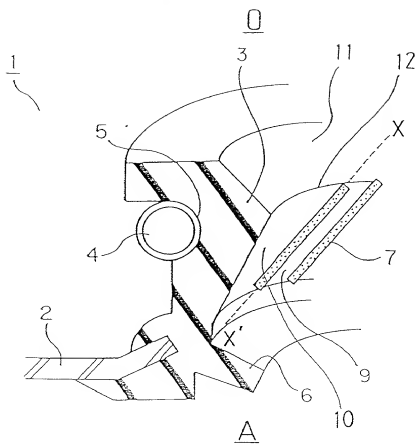


Fig. 2

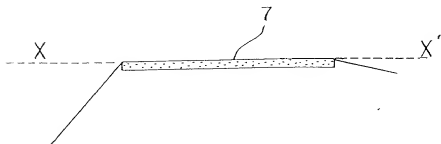


Fig. 3

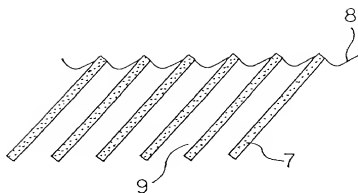


Fig. 4

Irradiation dose(Mrad)	Hardness (JIS A)
non-irradiated	78
10	84
20	85
50	84

Fig. 5

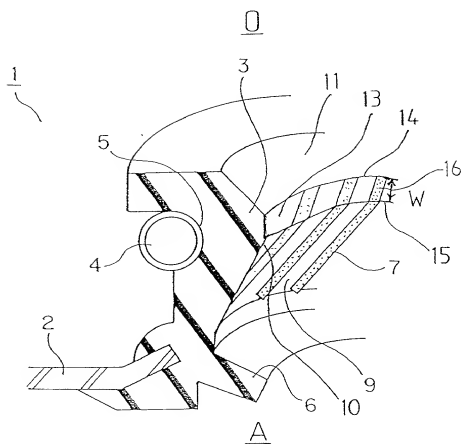


Fig. 6A

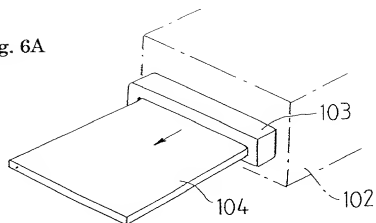


Fig. 6B

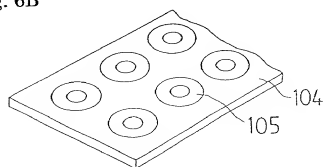


Fig. 6C

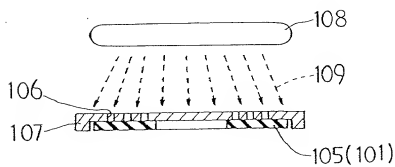


Fig. 7A

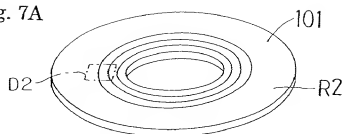


Fig. 7B

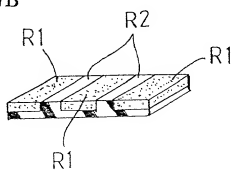


Fig. 7C

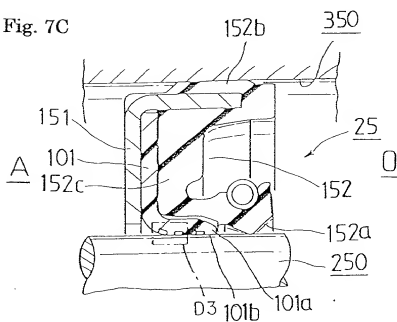


Fig. 7D

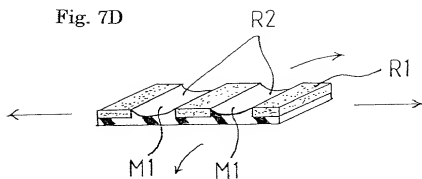


Fig. 8A

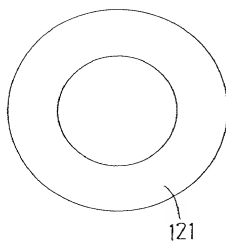


Fig. 8B

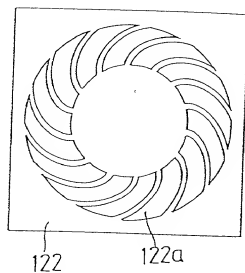


Fig. 8C

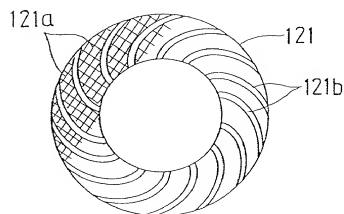


Fig. 9

Relation between irradiation dose and mechanical properties

		Irradiation atmosphere	Irradiation dose (Mrad)	Modulus of elasticity at 100% elongation (Mpa)	Strength at break (Mpa)
Example 1	Polymer only	N <sub>2</sub>	0	1.5	1.1
		N <sub>2</sub>	10	1.5	3.5
		N <sub>2</sub>	20	1.5	2.8
		N <sub>2</sub>	50	1.5	2.9
Example 2	Composition having carbon black	N <sub>2</sub>	0	6.5	4.2
		N <sub>2</sub>	10	6.8	11.0
		N <sub>2</sub>	20	8.1	10.8
		N <sub>2</sub>	50	10.5	10.3

Fig. 10

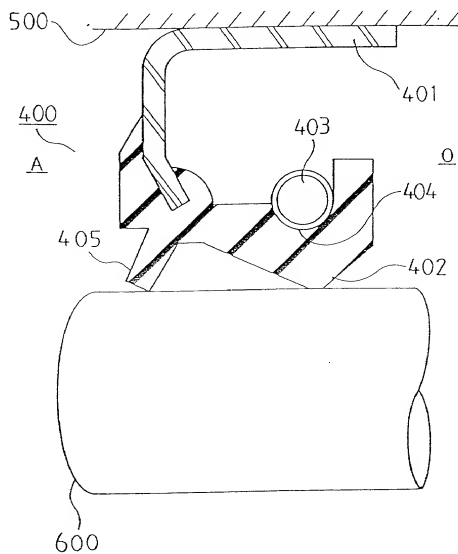




Fig. 11

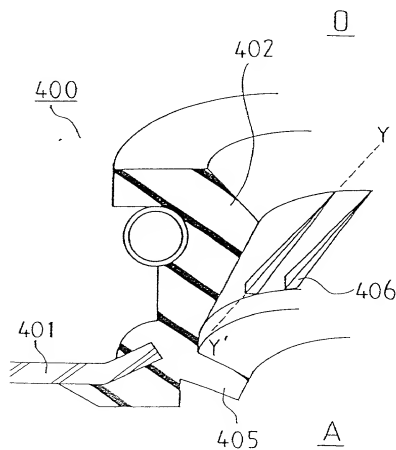


Fig. 12

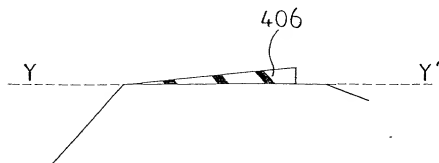


Fig. 13

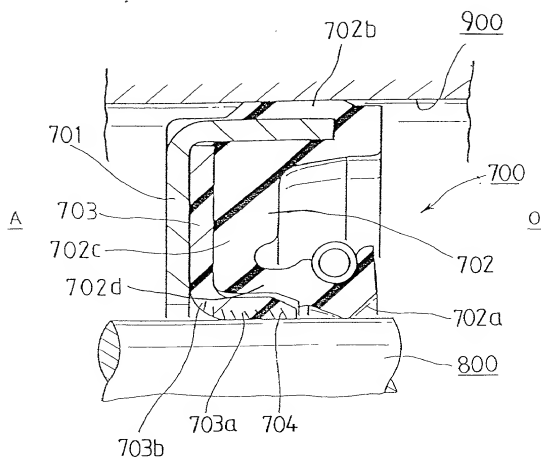


Fig. 14A

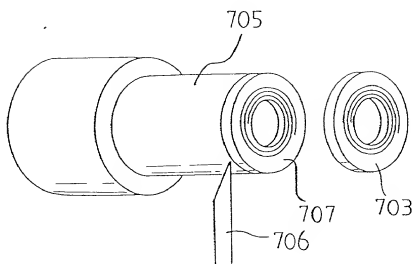


Fig. 14B

